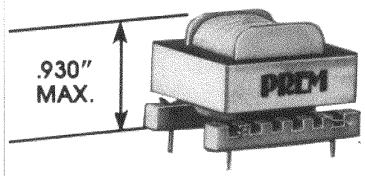


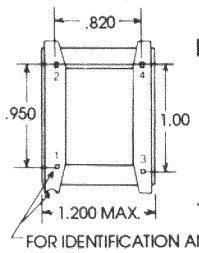
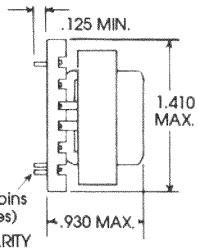


Fig. 1



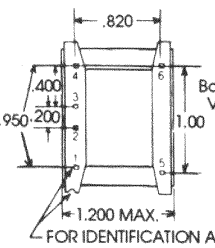
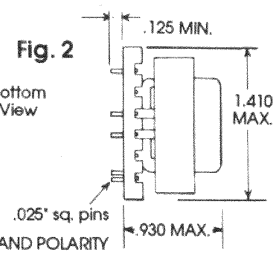


Fig. 2

Bottom View

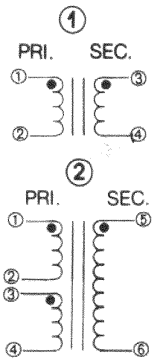


FREQUENCY RESPONSE
±.5dB (300-3500Hz)

DIELECTRIC STRENGTH
1500 VAC (PRI-SEC-CORE)

LONGITUDINAL BALANCE
MEETS FCC PART 68.310(a) REQUIREMENTS, TEST UNIT RL 600Ω.

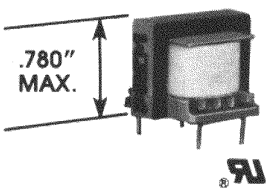
SCHEMATIC



SECONDARY LOAD 600Ω W/DC PRI

PART NO.	IMPEDANCE PRI	IMPEDANCE SEC	TURNS RATIO ±2%	MAX DC UNBAL.	INS. LOSS REF @ 1KHz	RETURN LOSS MIN. @ 300Hz	TYP. T.H.D. @ 0dBm: 300Hz	RESISTANCE ±10% PRI	RESISTANCE ±10% SEC	SCH. NO.	FIG. NO.
SPT-116	600	600	1:1	80mA	1.20dB	13.0dB ①	-53dB	66.2Ω	82.2Ω	1	1
SPT-117	600	600	1:1.125	80mA	1.25dB	16.0dB ①	-59dB	76Ω	86Ω	2	2
SPT-118	900	600	1:.8163	80mA	1.50dB	9.5dB ①	-53dB	82.8Ω	85.4Ω	1	1
SPT-119	900	600	1:.946	80mA	1.55dB	12.0dB	-53dB	90Ω	110Ω	2	2
SPT-124	600	600	1:1	80mA	1.20dB	13.0dB ①	-53dB	66Ω	82Ω	2	2

① OTHER OPTIMIZED VALUES OBTAINABLE



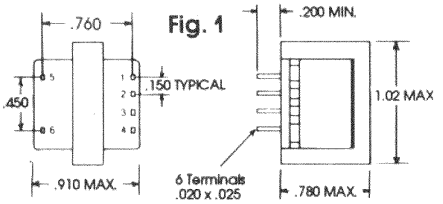
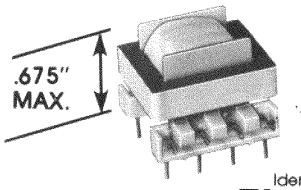


Fig. 1



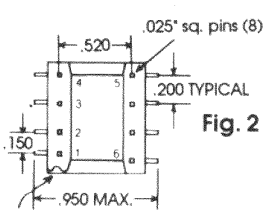
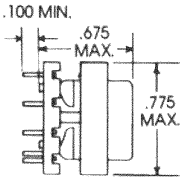


Fig. 2

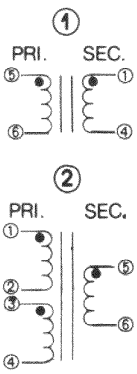


FREQUENCY RESPONSE
(300-3500Hz) ± .5dB
SPT-197 ± .55dB

DIELECTRIC STRENGTH
1500 VAC (PRI-SEC-CORE)

LONGITUDINAL BALANCE
MEETS FCC PART 68.310(a) REQUIREMENTS, TEST UNIT RL 600Ω.

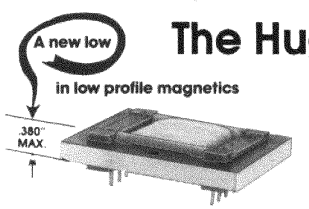
SCHEMATIC



SECONDARY LOAD 600Ω W/DC PRI

PART NO.	IMPEDANCE PRI	IMPEDANCE SEC	TURNS RATIO ±2%	MAX DC UNBAL.	INS. LOSS REF @ 1KHz	RETURN LOSS MIN. @ 300Hz	TYP. T.H.D. @ 0dBm: 300Hz	RESISTANCE ±10% PRI	RESISTANCE ±10% SEC	SCH. NO.	FIG. NO.
SPT-113	600	600	1:1	50mA	1.25dB	12.5dB ①	-59dB	75Ω	76Ω	2	1
SPT-196	600	600	1:1	50mA	1.30dB	11.0dB	-53dB	75Ω	76Ω	2	1
SPT-115	600	600	1:1	60mA	1.30dB	10.5dB ①	-53dB	63Ω	88Ω	1	1
SPT-131	600	600	1:1	0mA	1.00dB	18.0dB	-57dB	24.5Ω	31Ω	2	2
SPT-197	600	600	1:1	0mA	1.15dB	12.5dB	-53dB	24.5Ω	31Ω	2	2

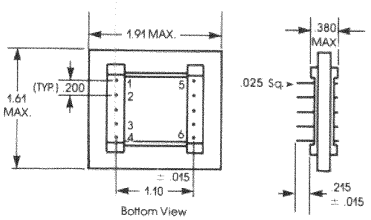
① OTHER OPTIMIZED VALUES OBTAINABLE



The Hugger Concept

This device is easily adaptable to card spacings of 1/2 inch

The Hugger is an extremely low profile package used primarily as a coupling transformer or feed bridge inductor.



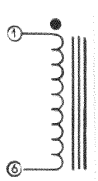
FREQUENCY RESPONSE
±.5dB (300-3500Hz)

DIELECTRIC STRENGTH
1500 VAC (PRI-SEC-CORE)

LONGITUDINAL BALANCE
MEETS FCC PART 68.310(a) REQUIREMENTS, TEST UNIT RL 600Ω.

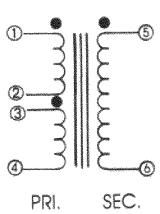
FEED-BRIDGE INDUCTOR

PART NO.	RESISTANCE ±15%	DIELECTRIC STRENGTH (WINDING-CORE)	INDUCTANCE	
SPT-169	114Ω	1500VAC	@ 0mA DC	.90Hy min.
			80mA DC	.75Hy min.
			120mA DC	.60Hy min.



SCHEMATIC

SCHEMATIC



COUPLING TRANSFORMER

SECONDARY LOAD 600Ω W/DC PRI

PART NO.	IMPEDANCE PRI	IMPEDANCE SEC	TURNS RATIO ±2%	MAX DC UNBAL.	INS. LOSS REF @ 1KHz	RETURN LOSS MIN. @ 300Hz	ECHO RETURN LOSS MIN.	TYP. T.H.D. @ 0dBm: 300Hz	RESISTANCE ±10% PRI	RESISTANCE ±10% SEC
SPT-172	600	600	1:1	50mA	1.5dB	11.5dB	16.5dB	-50dB	73Ω	103Ω